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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/970,399	10/03/2001	Miroslav Svajda	47161-00016	9667
30223 75	590 06/04/2003			·
JENKENS & GILCHRIST, P.C. 225 WEST WASHINGTON SUITE 2600			EXAMINER	
			NI, SUHAN	
CHICAGO, IL 60606			ART UNIT	PAPER NUMBER
			2643	
			DATE MAILED: 06/04/2003	0

Please find below and/or attached an Office communication concerning this application or proceeding.

	An	plication No.	Applicant(s)		
Office Action Summ	.am.	/970,399 — <del></del>	SVAJDA ET AL.		
<u> </u>		aminer	Art Unit		
The MAILING DATE of this of		nan Ni on the cover sheet v	vith the correspondence address		
Period for Reply			•		
A SHORTENED STATUTORY PEI THE MAILING DATE OF THIS CO  - Extensions of time may be available under the after SIX (6) MONTHS from the mailing date or  - If the period for reply specified above is less th  - If NO period for reply is specified above, the m  - Failure to reply within the set or extended perior  - Any reply received by the Office later than thre earned patent term adjustment. See 37 CFR 1  Status	MMUNICATION. provisions of 37 CFR 1.136(a). f this communication. an thirty (30) days, a reply within aximum statutory period will app d for reply will, by statute, cause months after the mailing date	In no event, however, may an the statutory minimum of the statutory minimum of the statutory of the application to become A	reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. IBANDONED (35 U.S.C. § 133).		
1) Responsive to communicati	on(s) filed on <u>03 April</u>	<u>2003</u> .			
2a) This action is <b>FINAL</b> .	2b)⊠ This ac	tion is non-final.			
3) Since this application is in c closed in accordance with t			atters, prosecution as to the merits is .D. 11, 453 O.G. 213.		
Disposition of Claims					
4) Claim(s) 1-27 and 44-48 is/a					
4a) Of the above claim(s)		om consideration.			
5) Claim(s) is/are allowe					
6)⊠ Claim(s) <u>1-27 and 44-48</u> is/a —	-				
7) Claim(s) is/are object					
8) Claim(s) are subject t Application Papers	o restriction and/or ele	ction requirement.			
9) The specification is objected	to by the Examiner.		•		
10)☐ The drawing(s) filed on	_ is/are: a)☐ accepted o	or b) objected to by	the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)☐ The proposed drawing correc			disapproved by the Examiner.		
If approved, corrected drawing					
12) The oath or declaration is obj	•	ier.			
Priority under 35 U.S.C. §§ 119 and					
13) Acknowledgment is made of		ority under 35 U.S.C.	§ 119(a)-(d) or (f).		
a) ☐ All b) ☐ Some * c) ☐ No	one of:				
1. Certified copies of the	priority documents have	ve been received.			
2. Certified copies of the priority documents have been received in Application No					
	e International Bureau	(PCT Rule 17.2(a))			
14)⊠ Acknowledgment is made of a	claim for domestic pri	ority under 35 U.S.C	. § 119(e) (to a provisional application).		
a) ☐ The translation of the for 15)☐ Acknowledgment is made of a	• • • •	, ,			
Attachment(s)	·	•			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing I 3) Information Disclosure Statement(s) (PTO			v Summary (PTO-413) Paper No(s)  f Informal Patent Application (PTO-152)		
J.S. Patent and Trademark Office PTO-326 (Rev. 04-01)	Office Action	Summary	Part of Paper No. 6		

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### DETAILED ACTION

1. This communication is responsive to the election and amendment filed 04/03/2003.

# Claim Rejections - 35 USC § 112, 2nd Paragraph

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

2. Claims 17-18 and 25-26 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Regarding all claims, the applicants claim a listening device. But it is not clear why a non-audio frequency ranged signal has been obtained and processed, not utilized for the listen device for providing listening for a user/users.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-27 and 44-48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mead et al. (US-6,044,162) in view of Groppe (US-5,086,464).

Regarding claims 1, 15, 17 and 48, Mead et al. disclose a hearing device, comprising: an input transducer (128) for generating an electrical output signal; a first amplifier (130) for receiving the electrical output signal of the transducer and for generating an amplified signal; and

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a first filter (116-1) for receiving the amplified signal of the amplifier and for generating an filtered signal. But Mead et al. do not specially teach a telecoil type input transducer as claimed. Groppe discloses a similar hearing device, comprising a telecoil type input transducer for inductively pickup input signal. Therefore, it would have been obvious to one skilled in the art at the time the invention was made to be motivated to provide the inductive pickup transducer taught by Groppe for the hearing device as an alternate choice, for providing a wireless communication for the user.

Moreover, Mead et al. do not clearly teach an IC as claimed. Since providing IC technology for a hearing device is very well known in the art, it therefore would have been obvious to one skilled in the art at the time the invention was made to be motivated to provide a IC including all necessary elements for the hearing device, in order to provide a more integrated and size reduced hearing device, also with less power consumption.

Furthermore, Mead et al. do not clearly teach the frequency response rang for the filter as claimed. Since selecting a filter with desirable characteristics, such as frequency response for specific application is very well known in the art, it therefore would have been obvious to one skilled in the art at the time the invention was made to be motivated to provide a filter with desirable pass band for the processing IC of the hearing device, in order to provide desirable acoustic effect for different hearing applications.

Regarding claims 2-3, Mead et al. further disclose the hearing device, wherein the device includes a second amplifier (118-1) for receiving the first filtered signal and for generating a second amplified signal as claimed.

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Regarding claim 4, Mead et al. further disclose the hearing device, wherein the device includes a second filter (116-2) for receiving the first amplified signal and for generating a second filtered signal as claimed.

Regarding claims 5-6, Mead et al. further disclose the hearing device, wherein the device includes a third amplifier (118-2) for receiving the second filtered signal and for generating an third amplified signal as claimed.

Regarding claims 7, 16 and 26-27, neither Mead et al. nor Groppe specially teach the details of the telecoil type input transducer as claimed. Since providing a center-tapped telecoil as claimed for a hearing device is very well known in the art, it therefore would have been obvious to one skilled in the art at the time the invention was made to be motivated to provide the center-tapped telecoil with two signal output terminals for the hearing device, in order to provide users a wireless communication hearing device with desirable acoustic characteristics.

Method claims 8-14 are similar to claims 1-7 except for being couched in method terminology, such methods would be inherent when the structure is shown in the cited references.

Regarding claims 18-20, Mead et al. further disclose the hearing device, wherein the device includes a third filter (116-3) for receiving the first amplified signal and for generating a third filtered signal as claimed.

Regarding claims 21-22, neither Mead et al. nor Groppe specially teach a protection circuitry for the processing IC of the hearing device as claimed. Since providing a protective element for a processing circuit for a hearing device is very well known in the art, it therefore would have been obvious to one skilled in the art at the time the invention was made to be motivated to provide the protective element for the processing IC of the hearing device, in order

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to provide the hearing device with protective features, and make the hearing device more durable.

Regarding claims 23-24, Mead et al. further disclose the hearing device, wherein the device includes an A/D (132) and a D/A (124) converter for DSP.

Regarding claim 25, Mead et al. further disclose the hearing device, wherein the device includes a plurality of controllers (44) for controlling an incoming signal as claimed.

Method claims 44-47 are similar to claims 15-27 except for being couched in method terminology, such methods would be inherent when the structure is shown in the cited references.

#### Conclusion

- 4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Suhan Ni** whose telephone number is (703)-308-9322, and the number for fax machine is (703)-305-9508. The examiner can normally be reached on Monday through Thursday from 9:00 am to 7:30 pm. If it is necessary, the examiner's supervisor, **Curtis Kuntz**, can be reached at (703) 305-4708.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (703) 305-3900.

Suhan Ni

05/31/2003